



REPLACEMENT SHEET

09/751,151

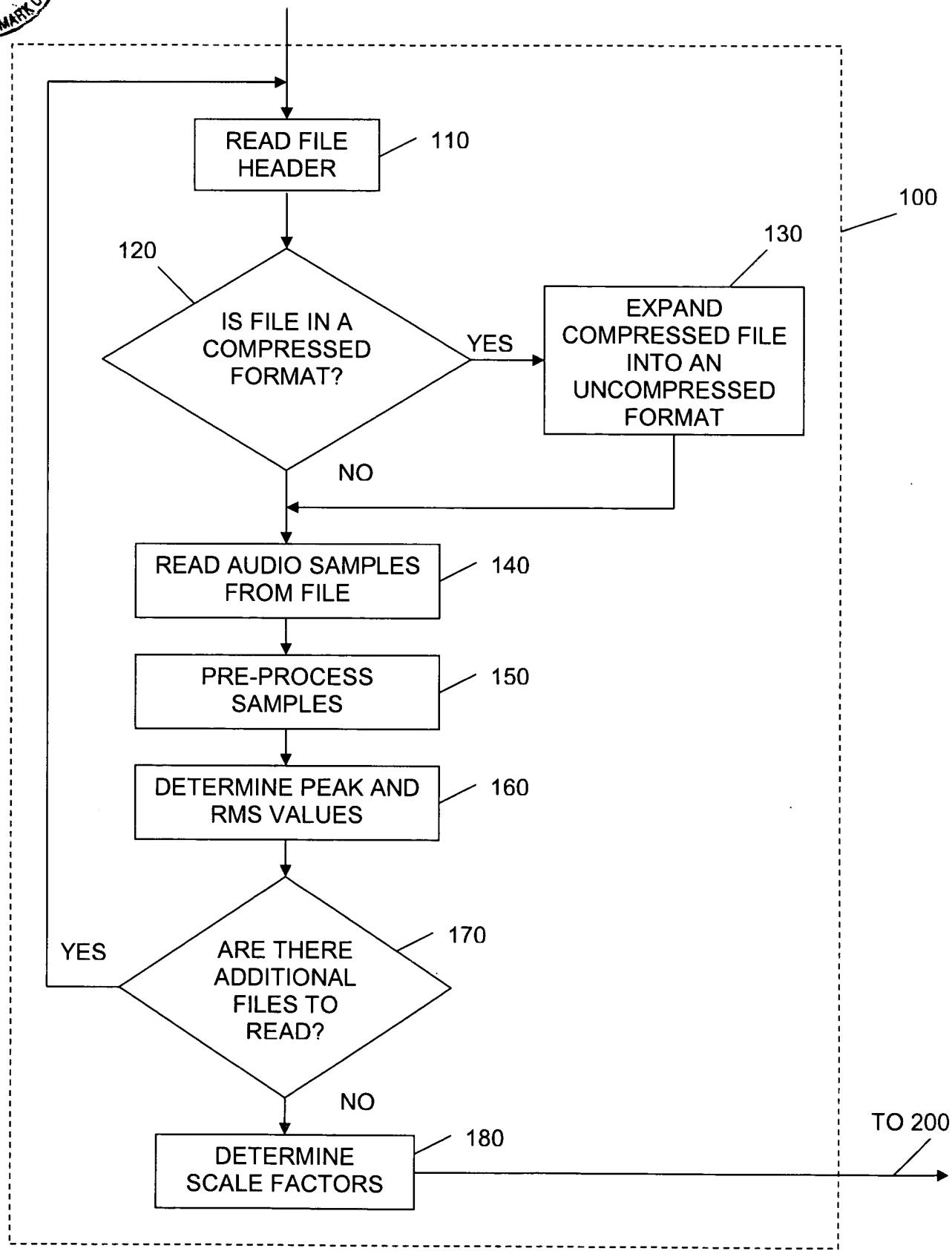


FIGURE 1A

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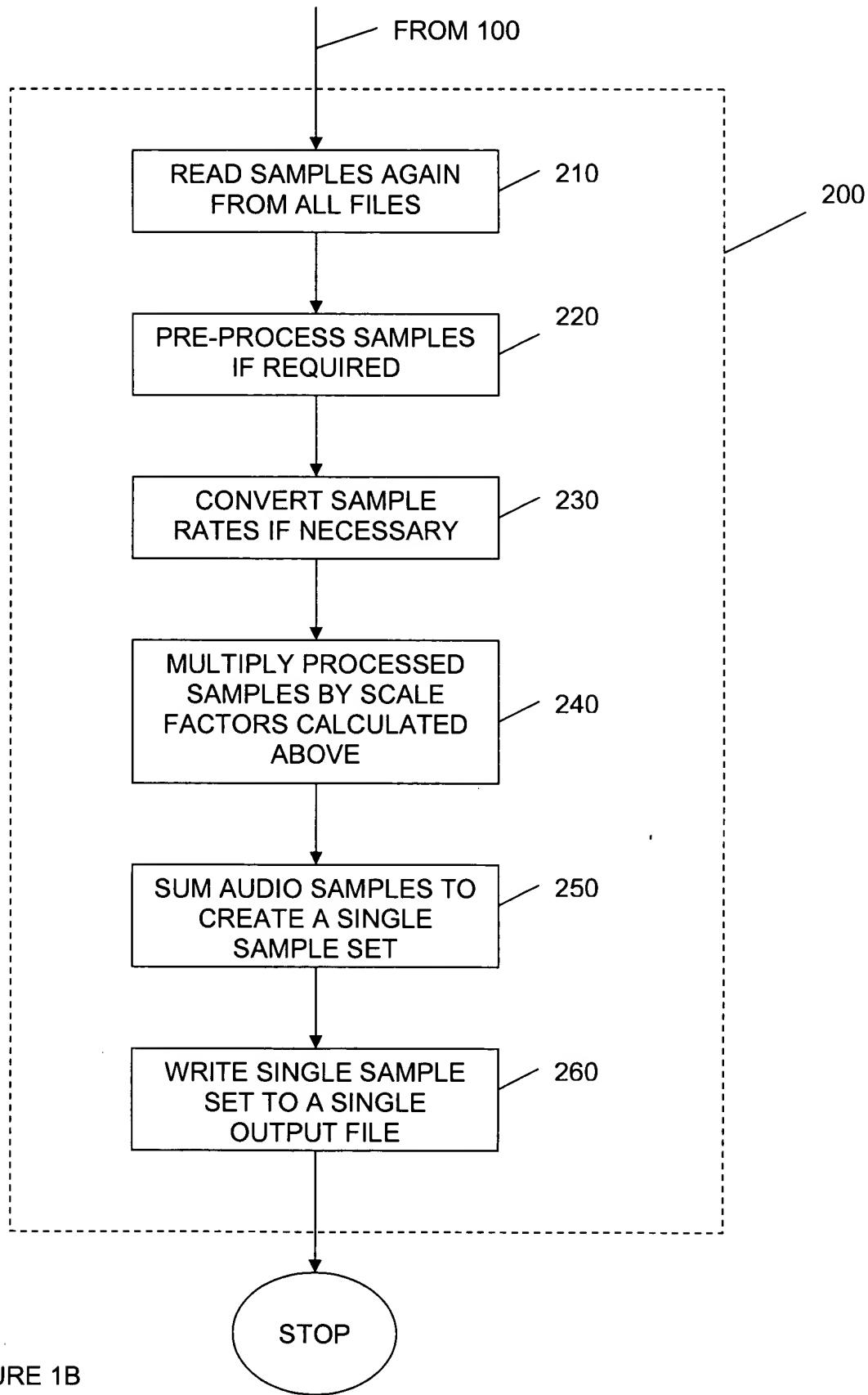
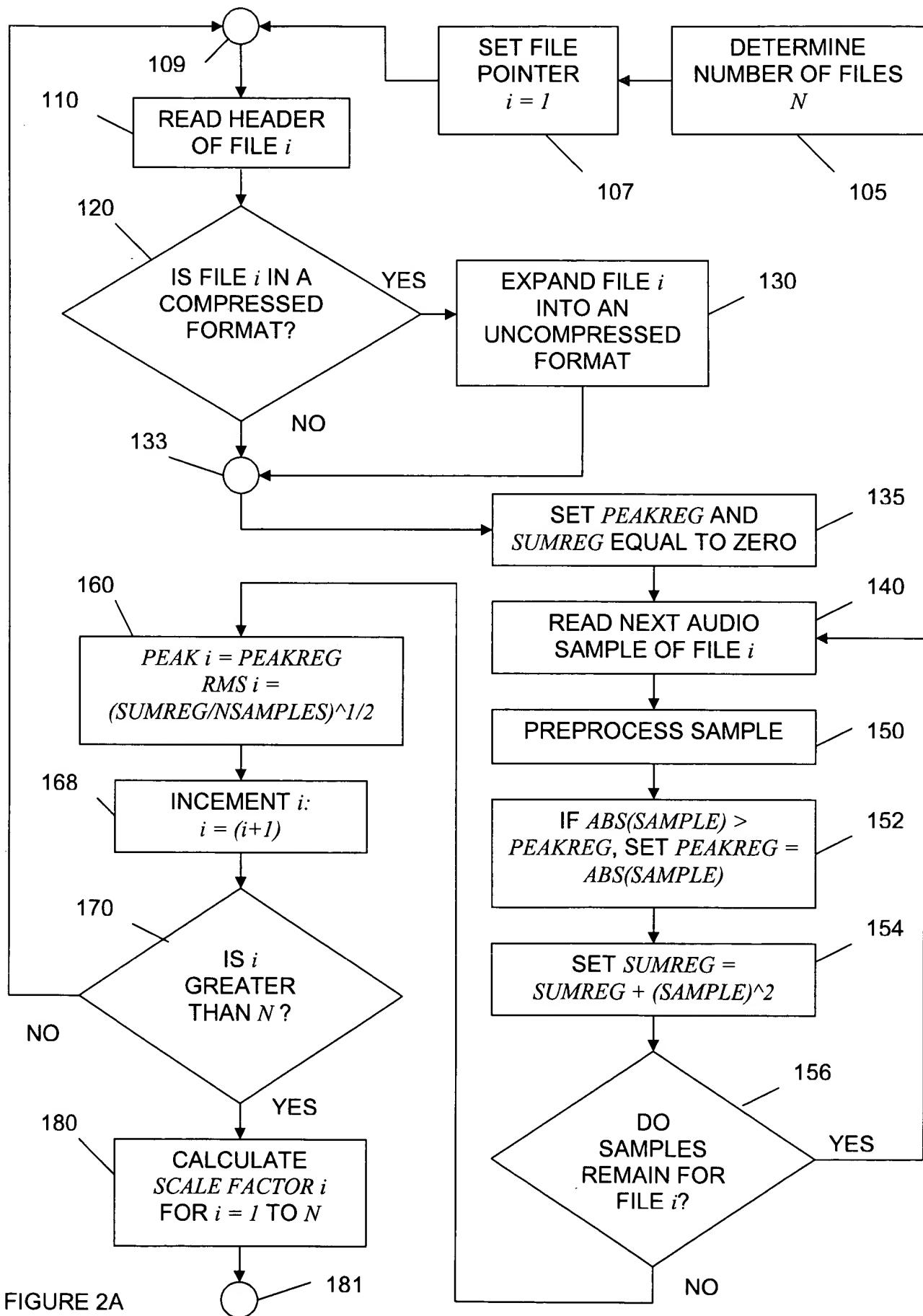


FIGURE 1B

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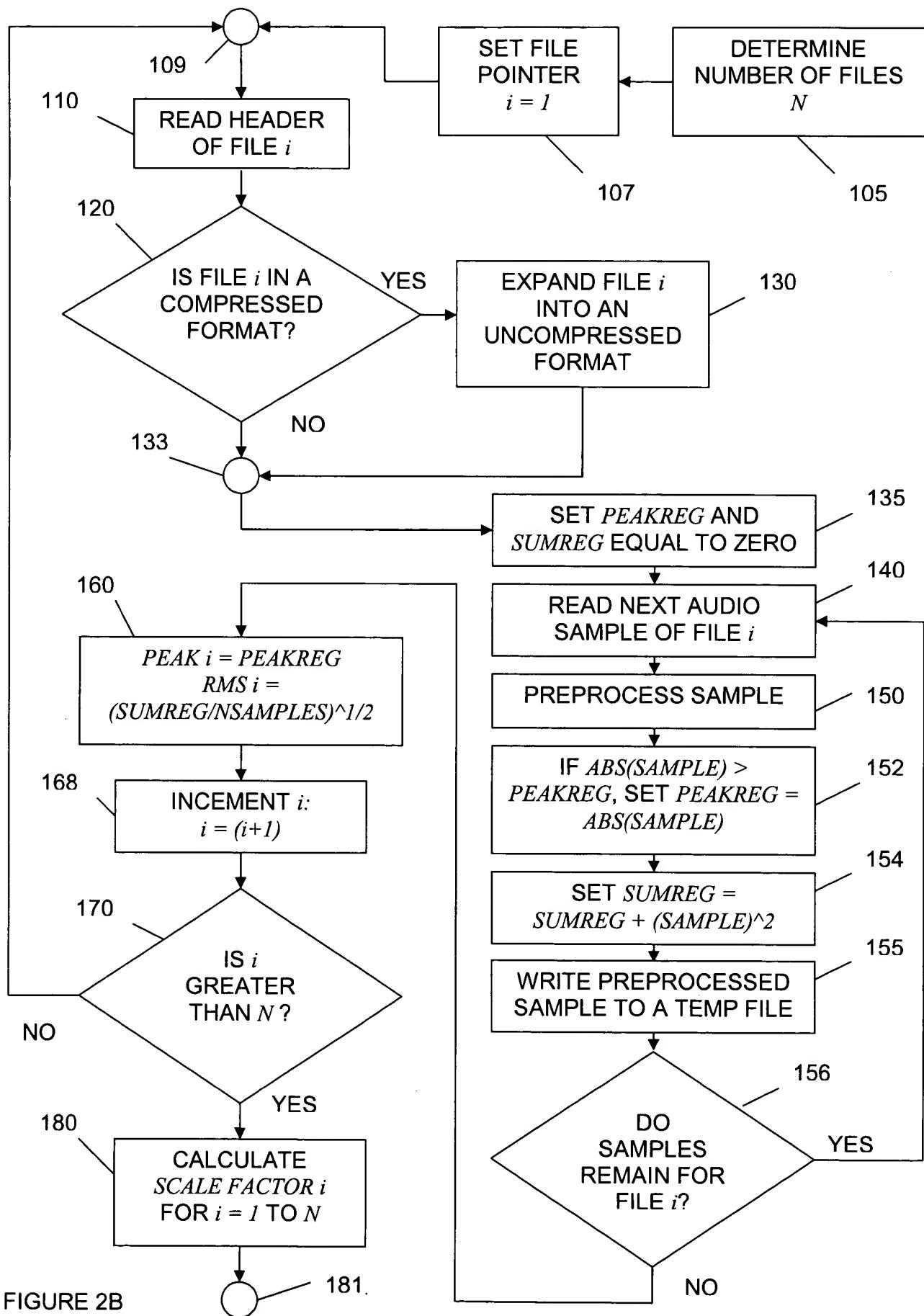


FIGURE 2B

181.

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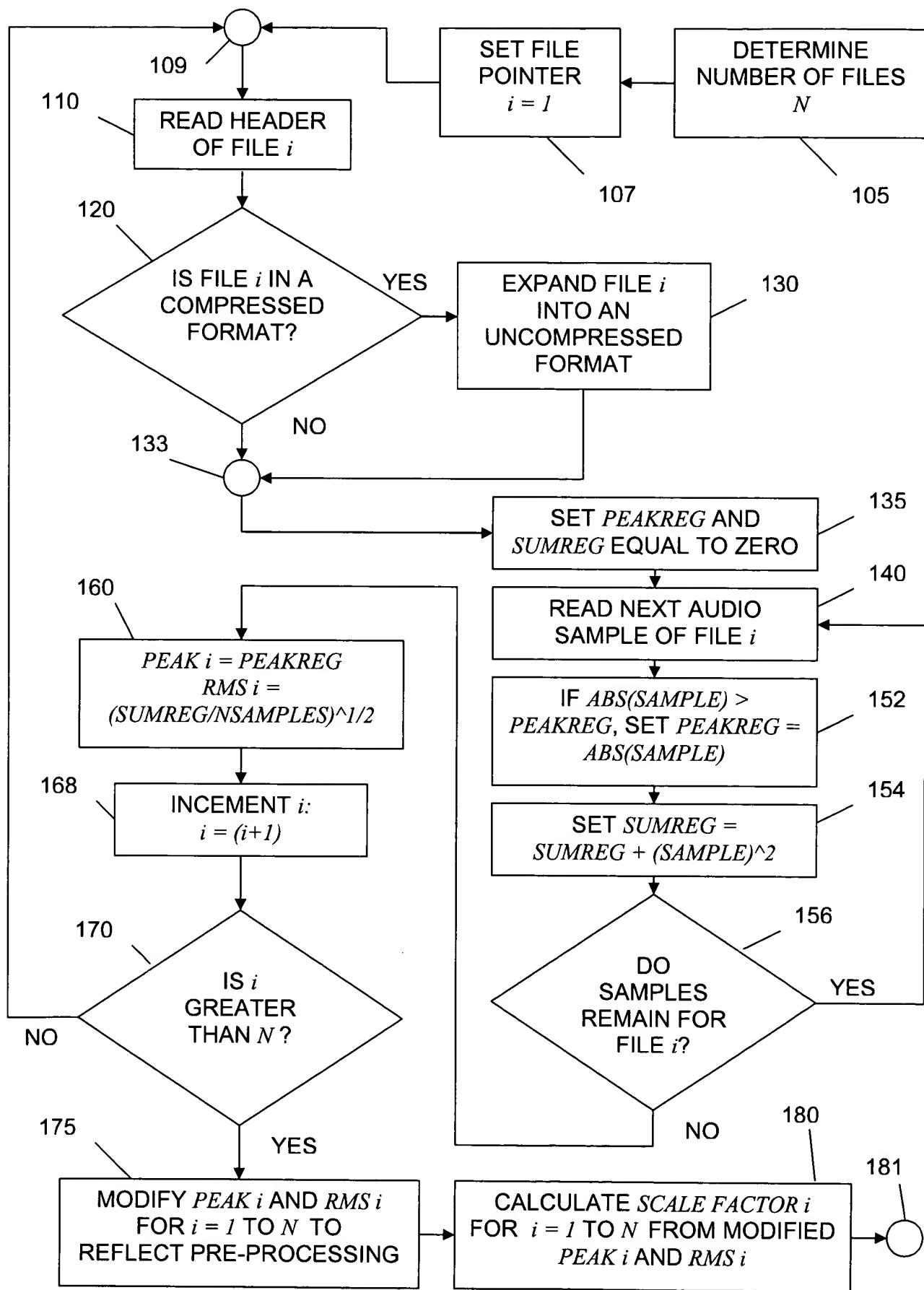


FIGURE 2C

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CALCULATE SCALE FACTORS FOR TWO AUDIO FILES

$$\text{FIRST SCALE FACTOR} = K / \{ PEAK1 + PEAK2 * (\beta * RMS1) / ((1 - \beta) * RMS2) \}$$
$$\text{SECOND SCALE FACTOR} = K / \{ PEAK2 + PEAK1 * (\beta * RMS2) / ((1 - \beta) * RMS1) \}$$

FIGURE 3A (scale factor calculation for two files)

CALCULATE SCALE FACTORS FOR N AUDIO FILES

$$\begin{bmatrix} P1 & P2 & P3 & \dots & Pi & \dots & PN \\ \beta1 \cdot R1 & -\beta2 \cdot R2 & 0 & 0 & 0 & 0 & 0 \\ \beta1 \cdot R1 & 0 & -\beta3 \cdot R3 & 0 & 0 & 0 & 0 \\ \beta1 \cdot R1 & 0 & 0 & \dots & 0 & 0 & 0 \\ \beta1 \cdot R1 & 0 & 0 & 0 & -\beta i \cdot Ri & 0 & 0 \\ \beta1 \cdot R1 & 0 & 0 & 0 & 0 & \dots & 0 \\ \beta1 \cdot R1 & 0 & 0 & 0 & 0 & 0 & -\beta N \cdot RN \end{bmatrix} X \begin{bmatrix} S1 \\ S2 \\ S3 \\ \dots \\ Si \\ \dots \\ SN \end{bmatrix} = \begin{bmatrix} K \\ 0 \\ 0 \\ 0 \\ 0 \\ \dots \\ 0 \end{bmatrix}$$

FIGURE 3B (scale factor calculation for N files)

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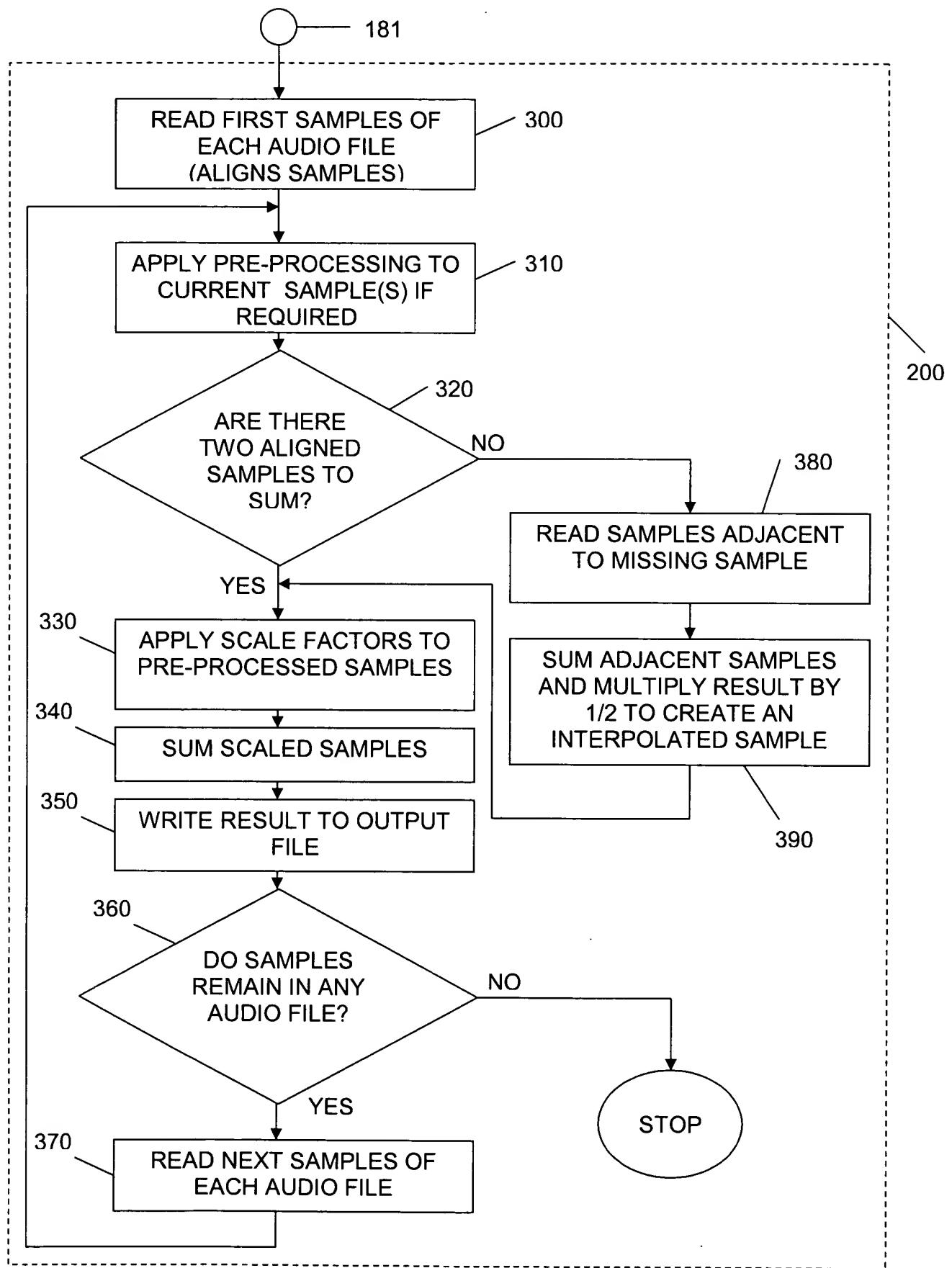


FIGURE 4